

## Selection table for safety switches NX

### Connection

**M** Thread M20x1.5 for cable glands

### Switching element

**Four contacts** 4 NC ⊖ or 3 NC ⊖ + 1 NO or 2 NC ⊖ + 2 NO



Connection	Switching element		Page
M	four contacts		94





## Safety switch NX

- ▶ Cable entry M20 x 1.5
- ▶ LED indicator optional



### Approach direction



Horizontal and vertical  
Can be adjusted in 90° steps

### LED function display (optional)

A function display (2 LEDs, red and green) is available for the following voltage ranges:

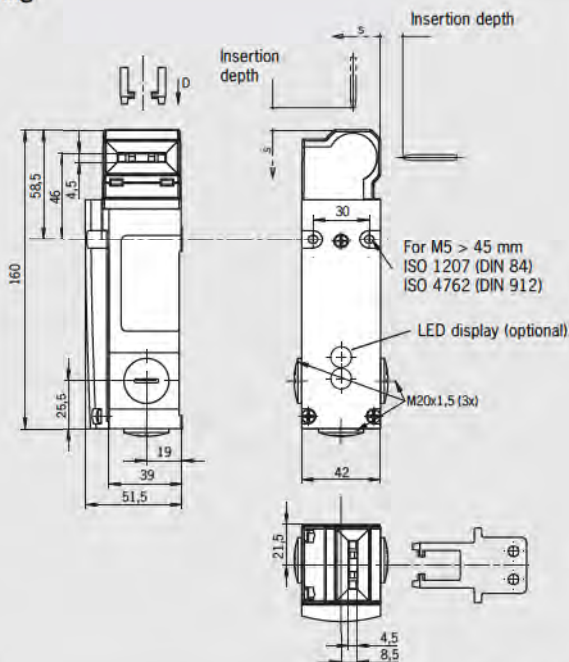
- ▶ DC 24 V +10%, -15%

### Switching elements (see also page 13/14)

- ▶ **2121** Slow-action switching element  
4 NC ⊖
- ▶ **2131** Slow-action switching element  
3 NC ⊖ + 1 NO
- ▶ **3131** Slow-action switching element  
2 NC ⊖ + 2 NO

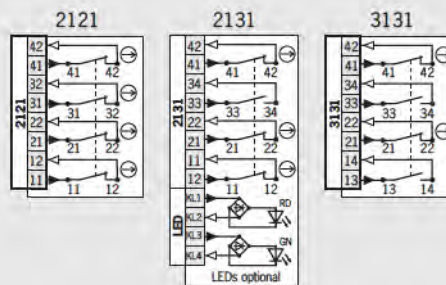
## Cable entry M20 x 1.5

### Dimension drawing



Please order actuator separately (see page 114)

### Wiring diagrams Actuator inserted




### Ordering table


Series	Connection	Switching element	Version	Order No. / Item
NX	1 Cable entry 3 x M20 x 1.5	<b>2121</b> 4 NC ⊖		<b>092 625</b> NX1-2121A-M
		<b>2131</b> 3 NC ⊖ + 1 NO		<b>092 624</b> NX1-2131A-M
		<b>2131</b> 3 NC ⊖ + 1 NO	<b>L024</b> LED display DC 24 V	<b>091 682</b> NX1-2131AL024-M
		<b>3131</b> 2 NC ⊖ + 2 NO		<b>092 626</b> NX1-3131A-M


## Safety switch NX



The technical data on switches and switching elements apply to all connections. Further technical data are given for the connection selected.

Switch			
Parameter	Value		Unit
Housing material	Die-cast alloy, cathodically dipped		
Mechanical life	2 x 10 <sup>6</sup> operating cycles		
Ambient temperature	- 20 ... + 80		°C
Weight	Approx. 0.4		kg
Max. approach speed	20		m/min
Actuating force	40		N
Extraction force	50		N
Retention force	10		N
Insertion depth	Standard actuators	Overtravel actuator	
Required insertion depths $s_{min}$	32	32	mm
Maximum insertion depth $s_{max}$	33	40	mm
Actuator travel (in the locked state)	6	13	mm

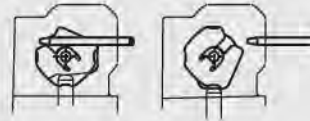
Switching element			
Parameter	Value		Unit
Switching principle	Slow-action switching element		
Switching elements with 4 switching elements	<b>2121</b> 4 NC	<b>2131</b> 3 NC + 1 NO	<b>3131</b> 2 NC + 2 NO
Switching current, min., at 24 V DC	1		mA
Switching voltage, min., at 10 mA	12		V
Contact material	Silver alloy, gold flashed		

Connection, cable entry M20 x 1.5			
Parameter	Value		Unit
Connection	Screw terminal		
Version	M20 x 1.5		
Conductor cross-section	0.34 ... 1.5		mm <sup>2</sup>
Degree of protection according to IEC 60529	IP 67		
Rated insulation voltage $U_i$	250		V AC/DC
Rated impulse withstand voltage $U_{imp}$	2.5		kV
Conventional thermal current $I_{th}$	4		A
Short circuit protection according to IEC 60269-1 (control circuit fuse)	4		A gG
Utilization category to IEC 60947-5-1	AC-15	$I_e$ 4 A $U_e$ 230 V	
	DC-13	$I_e$ 4 A $U_e$ 24 V	

Switching functions NX

Actuator inserted

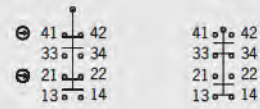
Actuator removed



NX.-2131...



NX.-3131...



NX.-2121...

